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10/506,828	06/27/2005	Werner Thoren	THOR3002/FJD	6792
23364 BACON & TH	7590 06/08/2007 OMAS PLLC		EXAMINER	
625 SLATERS LANE			LIN, WEN TAI	
FOURTH FLOOR ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
	,		2154	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/506,828	THOREN, WERNER				
Office Action Summary	Examiner	Art Unit				
	Wen-Tai Lin	2154 .				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN. 136(a). In no event, however, may d will apply and will expire SIX (6) Mitte, cause the application to become	AICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on 11 2 2a) ☐ This action is FINAL. 2b) ☐ This action for allowed closed in accordance with the practice under	is action is non-final. ance except for formal ma					
Disposition of Claims						
4) Claim(s) 15,16,18 and 20-28 is/are pending in 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 15-16, 18 and 20-28 is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.					
9) The specification is objected to by the Examin 10) The drawing(s) filed on 11 April 2007 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	a) accepted or b) objection of accepted or b) objection accepted in abeyction is required if the drawired or the drawired or by acceptance or	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	·					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No	y Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152) 				

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DETAILED ACTION

- 1. Claims 15-16, 18 and 20-28 are presented for examination. Claims 17 and 19 have been canceled.
- 2. Claims 18 and 20 is objected to because they depend on a canceled claim (i.e., claim 17).
- 3. The text of those sections of Title 35, USC code not included in this action can be found in the prior Office Action.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 15-16, 18, 20-22 and 25-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Dreste et al.[U.S. Pat. No. 5388252].

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- 6. Dreste was cited in the previous office action.
- As to claim 15, Dreste teaches the invention as claimed including: a method for reducing an amount of process data to be transferred from a field device [e.g.,10 or 30, Fig.1], the process data including information concerning the operating condition of the field device, and/or information concerning process variables registered with the field device, and/or identification data of the field device [e.g., col.1 lines 16-36; Figs. 8-9; i.e., information about power supply voltages on different units of the machine], comprising the steps of:

evaluating and storing the process data occurring during an interval between two transfers of data, wherein the process data are reduced by means of the evaluating; and transferring the reduced process data to a process control center [e.g., claim 1 on cols. 17-18]; and

dividing the process data in the evaluating into static and dynamic data, wherein: process data which have changed since the last executed evaluating are classified as dynamic data, and static data are transferred as binary state values [e.g., col.11 line 48 – col. 12 line 51; i.e., effectively, only changed data are transmitted; note that the static data (i.e., data have not been changed) are represented as binary "0" after the XOR operation (see col. 12, lines 1-67)].

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- 8. As to claim 16, Dreste further teaches that transfer of the reduced process data is executed only at the occurrence of specified conditions [e.g., 190, Fig.13].
- 9. As to claim 18, Dreste further teaches that for the dynamic data, coded ranges are specified [i.e., since the information is coded in ASCII format, wherein each of the displayable characters is represented as an 8-bit code];

and only the code of the affected range, in which the process parameter is contained, is transferred to the process control center [see the example at cols. 11-12, wherein by comparing current image with the previous image, only changed data are packed and transmitted].

10. As to claim 20, Dreste teaches that the method further comprises the step of: forming from the dynamic data, a data word to be transferred, wherein:

the data word represents the altered value of the process parameter, or the difference between the new value and the old value of the process parameter [e.g., 206, Fig. 13; col. 12 lines 35-67; i.e., the data word is formed from the XOR results].

11. As to claims 21-22, Dreste further teaches that

the specifications for the execution of the transfer of the reduced process data, can be influenced by a user, based on the occurrence of specified events [Figs. 11-12; 190, Fig.13; i.e., a user can influence the transfer of the reduced process data by

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initiating the modem, followed by injecting various command to monitor/analyze the

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state of the device being diagnosed].

12. As to claim 25, Dreste further teaches that the transfer of data from the field

device to the process control station is unidirectional; and a bidirectional communication

is then implemented when data from the process control station must be transferred to

the field device [claim 1].

13. As to claim 26, since the features of this claim can also be found in claims 15, it

is rejected for the same reasons set forth in the rejection of claims 15 above.

14. As to claim 27, Dreste further teaches that said evaluation/control unit and said

storage unit are part of a field device [e.g., col.3 lines 44-58].

15. As to claim 28, Dreste teaches that the apparatus further comprises:

an operating and display unit, wherein:

the specifications which can be influenced by the user are entered by means of

said operating- and display-unit [e.g., Fig.2; col.3 lines 58-66; 190, Fig.13].

Claim Rejections - 35 USC § 103

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16. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 17. Claims 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dreste et al.(hereafter "Dreste")[U.S. Pat. No. 5388252], as applied to claims 15-22 and 25-28 above.
- 18. As to claim 23, Dreste does not specifically teach that an individual device description file is assigned to the field device by means of the identification data; and information concerning the field device is read out of the data description file.

However, individual field device having an associated description file for showing the principle of the device's operation and diagnostic steps is well known in the art of field service.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide an individual device description file for Dreste's photographic printer because it offers quick assistance to the person who performs remote diagnostic for the device [e.g., col.3 lines 32-66].

19. As to claim 24, Dreste does not specifically teach using the Internet as communication platform between the field device and the process control station.

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However, remote diagnostic system using the Internet as communication platform is well known in the art.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to also include the Internet as Dreste's communication platform because it enables Dreste's remote diagnostic task to be initiated from anywhere the Internet is available.

20. Applicant's arguments filed on 4/11/07 for claims 15-16, 18 and 20-28 have been fully considered but they are not deemed to be persuasive.

Specifically, Applicant argues in the remarks that: Dreste only works for characters and not numbers. The invention here relates to process data and as such relates to numerical processing, which quite unlike Dreste.

21. The examiner respectfully disagrees: (1) Nowhere in the claim languages indicate that Applicant's method is limited to "numbers" and numerical processing. As a matter of fact, the process data described in the preamble of claim 1 includes: information concerning the operating condition; information concerning process variables registered; and identification data of the field device. None of it limits the information to "numbers". (2) The ASCII code with which Dreste's method is based on covers not only alphabetical information, but also numerical information. (3) Even if Applicant excludes all character-based information and avoids representing the numbers as ASCII data, Dreste would still reads on the claims because Dreste's

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XOR (exclusive-OR) operator applies to binary data, which is the base for all computerized textual or non-textual information.

For at least the above reasons, it is submitted that the prior art of record reads on the claims.

- 22. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Examiner note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings of the art and are applied to the specific limitations within the individual claim, other passages and figures

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may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the contest of the passage as taught by the prior art or disclosed by the Examiner.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wen-Tai Lin whose telephone number is (571)272-3969. The examiner can normally be reached on Monday-Friday(8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

(571) 273-8300 for official communications; and

(571) 273-3969 for status inquires draft communication.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Wen-Tai Lin

June January 4; 2007

6/7/07